

Seeds and Needs

Grade Levels:
4-6

Questions:

Will seeds grow faster with more water?
Will seeds grow faster with more sunlight?

Possible Hypotheses:

Seeds will/will not grow faster with more water.
Seeds will/will not grow faster with more sunlight.

Materials:

Packet of bean seeds
Water
Tablespoon
Twenty snack-size zip-lock bags

Procedure:

1. Label ten bags from 1 to 10. Label the other ten bags 1-L to 10-L.
2. Place two seeds in each bag.
3. Add one tablespoon of water to bags 1 and 1-L, two tablespoons of water in bags 2 and 2-L, and so on until all the bags have water.
4. Place the bags in a sunny place. Leave the bags marked with an L in the sun all the time. Leave the other bags in the sun for two hours a day.
5. Compare the beans in the bags after one week. Record your observations.

Analysis and Conclusion:

What effect did the amount of water have on seed growth? What effect did the amount of sunlight have on seed growth? Do you think the seeds would grow better if they were in sunlight 24 hours a day?

